

# Routing Switcher

## User Manual - English



Version 1.3.0

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# Chapter 1 System Requirements

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## 1.1 Operating System Requirements

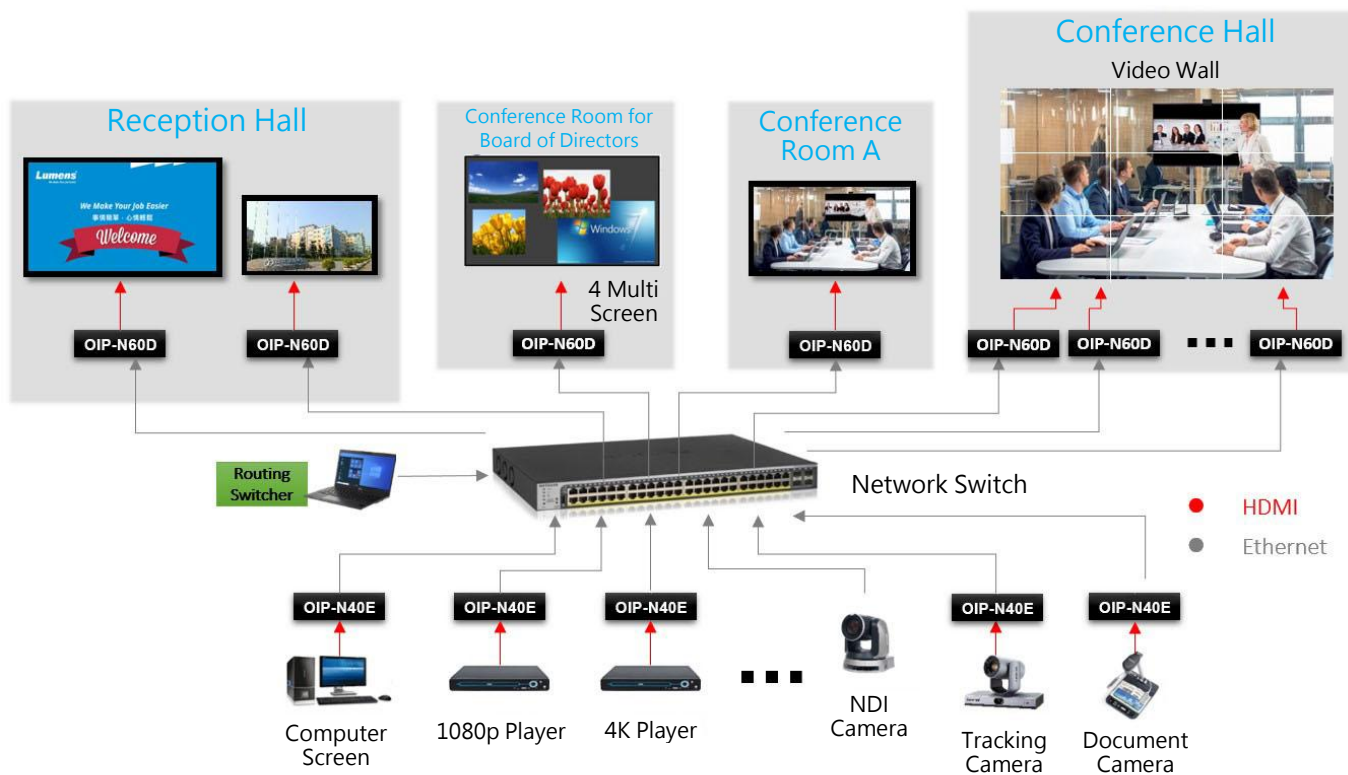
- Windows 10 (after ver. 1709)
- Windows 11

## 1.2 System Hardware Requirements

Item	Requirements
CPU	Intel® Core™ i3 10xxx or later, or equivalent AMD CPU
GPU	Integrated GPU(s) or Discrete Graphic(s)
Memory	16 GB of RAM
Free Disk Space	1 GB free disk space for installation
Ethernet	100 Mbps network card

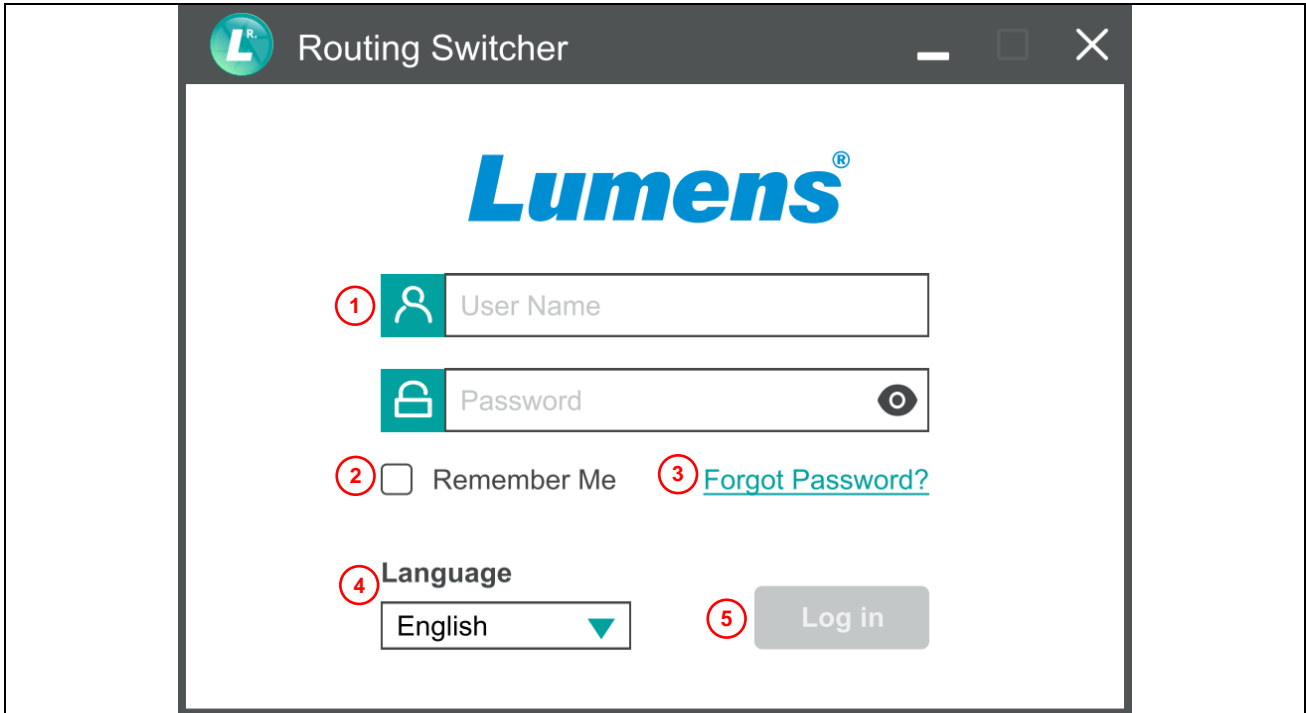
# Chapter 2 How to Connect

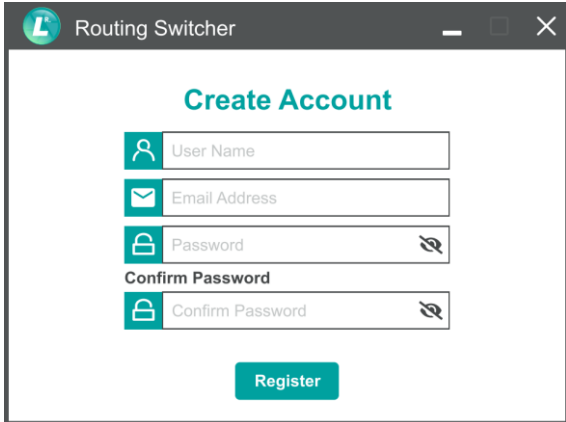
Make sure the computer, OIP-N Encoder/Decoder, Recording System and VC cameras are connected in the same network segment.



# Chapter 3 Operation Interface

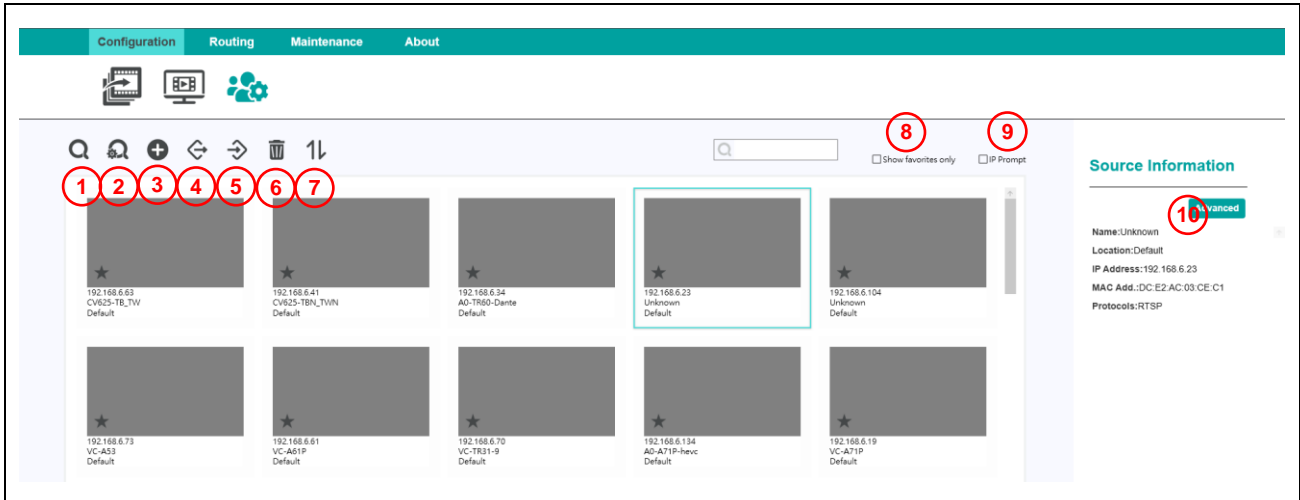
## 3.1 Login Screen

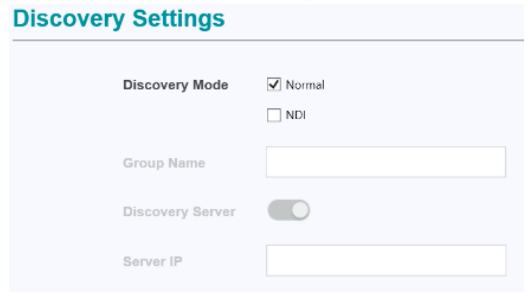
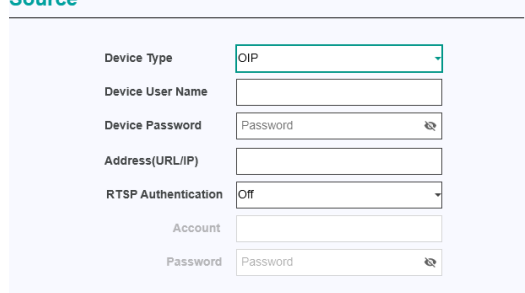


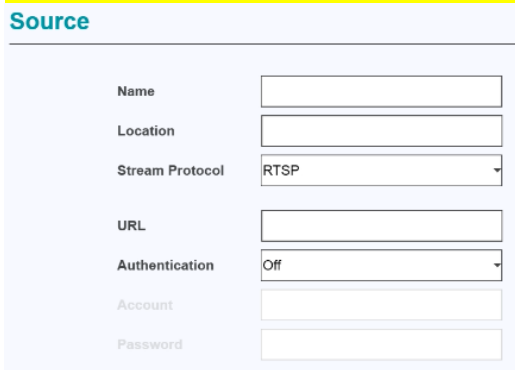
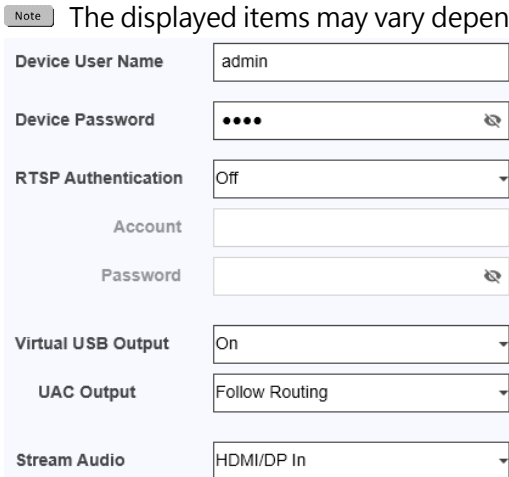
No	Item	Function Descriptions
1	Username/ Password	<p>Please enter user account/password (<b>default: admin/admin</b>)</p> <p><small>Note</small> For initial login, you need to enter a new account, password and email address to create account information</p> 
2	Remember password	Save username and password. When you log in next time, there is no need to re-enter them
3	Forgot Password	Enter the email address you entered when registered to reset your password
4	Language	Language of the software - English is available
5	Login	Log in to the administrator screen on the website

## 3.2 Configuration

### 3.2.1 Source



No	Item	Function Descriptions
1	Scan	Search for devices in the LAN; RTSP/NDI streaming supported By default, the normal mode can search for RTSP. If you need to search for NDI, please go to the Discovery Settings page to configure it
2	Discovery Settings	Search for the streaming in the LAN (multiple selections supported) <b>Discovery Settings</b>  Select NDI to configure the following settings: <ul style="list-style-type: none"> <li>Group Name: Enter the group location <b>Note</b> <ul style="list-style-type: none"> <li>The string can contain commas (,) to distinguish different groups</li> <li>The maximum string length is 127 characters</li> </ul> </li> <li>Discovery Server: Enable/Disable Discovery Server</li> <li>Server IP: Enter the IP address</li> </ul>
3	Add	Manually add the signal source <b>Source</b>  <ul style="list-style-type: none"> <li>Device Type: Type of the source device (Supported devices: Lumens OIP Series, VC Series, and LC Series)</li> <li>Device User Name: Username of the source device</li> </ul>

		<ul style="list-style-type: none"> <li>▪ Device Password: Password of the source device</li> <li>▪ Address (URL/IP): URL or IP address of the source device</li> <li>▪ RTSP Authentication: By enabling, you can set the account/password</li> </ul>  <ul style="list-style-type: none"> <li>▪ Name: Device Name</li> <li>▪ Location: Device Location</li> <li>▪ Device Type: Type of the source device</li> <li>▪ Address (URL/IP): URL or IP address of the source device</li> <li>▪ RTSP Authentication: By enabling, you can set the account/password</li> </ul>
4	Export	Export configuration data, which can be imported into other computers
5	Import	Import configuration data, which can be imported from other computers
6	Delete	Delete the selected streaming, with support for deleting multiple selections at once
7	Sort by	Select the sorting method for the source list <i>Sort by Name or IP Address in ascending (↑) or descending (↓) order, or select Custom for a custom order</i>
8	Show favorites only	Only the favorites will be shown Click the asterisk (★) in the lower left corner of the preview screen to add the device to your favorites
9	IP Prompt	Show the last two digits of the IP address
10	Source Information	<p>Clicking the preview screen will show the source information</p> <p>Click <b>Advanced</b> to open the window for advanced function setting</p> <p><b>Note</b> The displayed items may vary depending on the model of the source</p> 

Encode Sample Rate 48 KHz

Audio In Type Line In

Encode Sample Rate 48 KHz

Audio Volume - 6 +

Audio Out Follow Routing

Audio Volume - 6 +

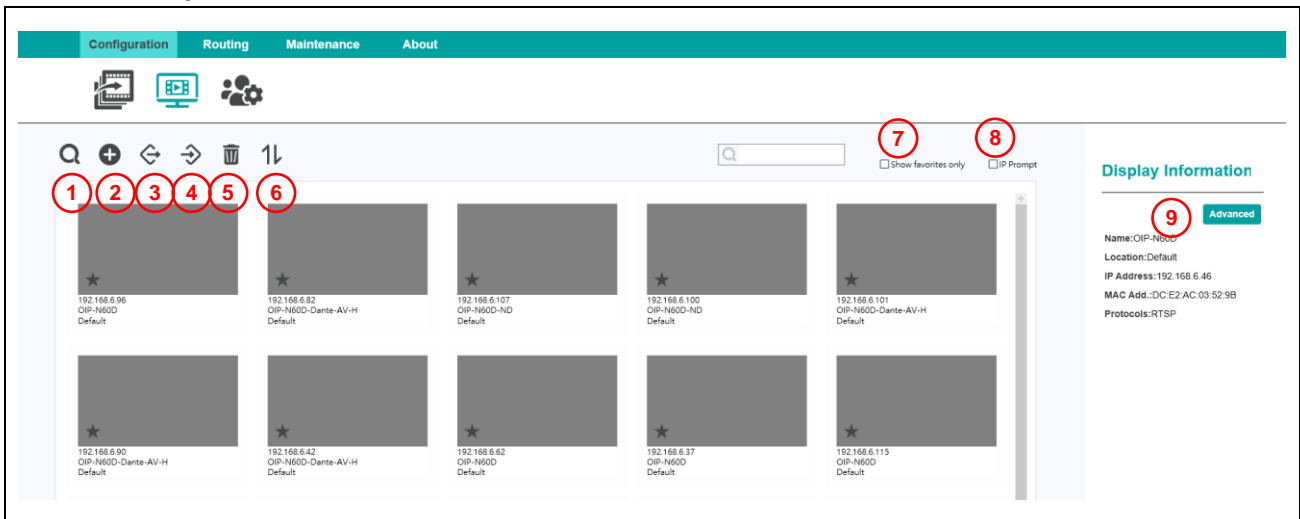
Talk Back Audio Audio In

Encode Sample Rate 48 KHz

Factory Reset Factory Reset

- Device User Name: Username
- Device Password: Password
- RTSP Authentication: By enabling, you can set the account/password
- Virtual USB Output: Enable or disable the Virtual USB output function
  - UAC Output: Select the output source for Virtual USB audio (UAC) (Follow Video Source / Follow Routing)
- Stream Audio: Select the audio source for the stream(HDMI/DP In / Audio In / USB Audio)
  - Encode Sample Rate: Encode sample rate (48 KHz/ 44.1 KHz/ 16 KH)
- Audio in Type: Audio in Type (Line In/MIC In)
  - Encode Sample Rate: Encode sample rate (48 KHz)
  - Audio Volume: Adjust audio volume
- Audio Out Source(Follow Stream/Follow Routing)
  - Audio Volume: Adjust audio volume
- Talk Back Audio: Select the audio input source for the Talk Back function(Audio In / USB Audio)
  - Encode Sample Rate: Encode sample rate (48 KHz)
- Factory Reset: Reset all configurations to factory default settings

### 3.2.2 Display



No	Item	Function Descriptions
1	Scan	Search for devices in the LAN
2	Add	Manually add the display source
3	Export	Export configuration data, which can be imported into other computers
4	Import	Import configuration data, which can be imported from other computers
5	Delete	Delete the selected streaming, with support for deleting multiple selections at once
6	Sort by	Select the sorting method for the source list <i>Sort by Name or IP Address in ascending (↑) or descending (↓) order, or select Custom for a custom order</i>
7	Show favorites only	Only the favorites will be shown Click the asterisk (★) in the lower left corner of the preview screen to add the device to your favorites
8	IP Prompt	Show the last two digits of the IP address
9	Display Information	<p>Clicking the preview screen will show the device information. Click <b>Advanced</b> to open the window for advanced function setting.</p> <p><b>Note</b> The displayed items may vary depending on the model of the source</p> <div style="border: 1px solid #ccc; padding: 5px;"> <p>Device User Name <input type="text" value="admin"/></p> <p>Device Password <input type="password" value="••••"/></p> <p>Virtual USB Output <input type="text" value="On"/></p> <p>UAC Output <input type="text" value="Follow Video Source"/></p> <p>Video Output <input type="text" value="1080p/59.94"/></p> <p>CEC <input type="text" value="Off"/></p> <p>HDMI Audio Out <input type="text" value="Off"/></p> <p>Audio Volume <input type="text" value="5"/></p> </div>

Audio Delay Time(-)

Audio In Type

Encode Sample Rate

Audio Volume

Audio Out

Audio Volume

Audio Delay Time(-)

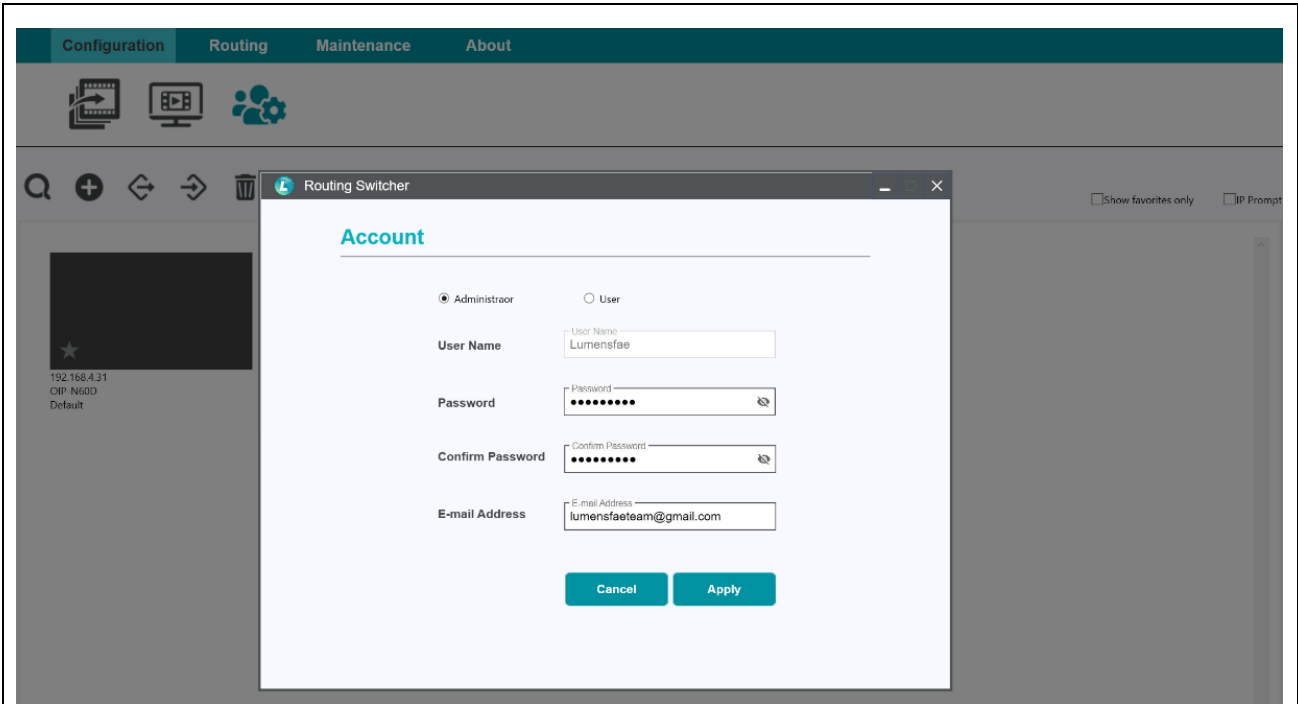
Talk Back Audio

Encode Sample Rate

Factory Reset

- Device User Name: Username
- Device Password: Password
- Virtual USB Output: Enable or disable the Virtual USB output function
  - UAC Output: Select the output source for Virtual USB audio (UAC) (Follow Video Source / Follow Routing)
- Video Output: Output Resolution
- CEC: Enable/Disable the CEC function
- HDMI Audio Out: Select the audio source for HDMI output (Follow Stream / Follow Routing)
  - Audio Volume: Adjust audio volume
  - Audio Delay Time: Set the audio signal delay time (0 ~ -500 ms)
- Audio in Type: Audio in Type (Line In/MIC In)
  - Encode Sample Rate: Set Encode sample rate
  - Audio Volume: Adjust audio volume
- Audio Out: Audio output source(Follow Stream/Follow Routing)
  - Audio Volume: Adjust audio volume
  - Audio Delay Time: Set the audio signal delay time (0 ~ -500 ms)
- Talk Back Audio: Select the audio input source for the Talk Back function(Audio In / USB Audio)
  - Encode Sample Rate: Encode sample rate (48 KHz)
- Factory Reset: Reset all configurations to factory default settings

### 3.2.3 User



#### Function Descriptions

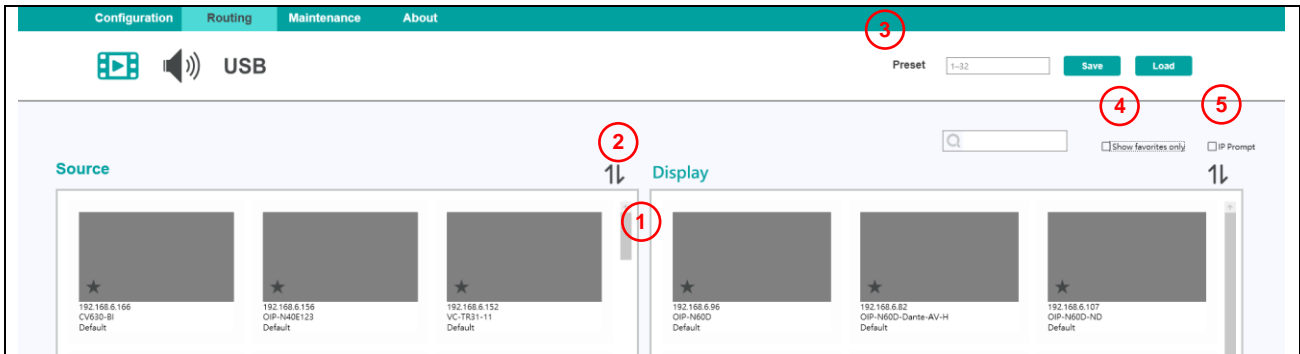
Display information of the administrator/user account

- Account: Supporting 6 ~ 30 characters
- Password: Supporting 8 ~ 32 characters
- User Permissions:

Function Items	Admin	User
Configuration	V	X
Routing	V	V
Maintenance	V	V

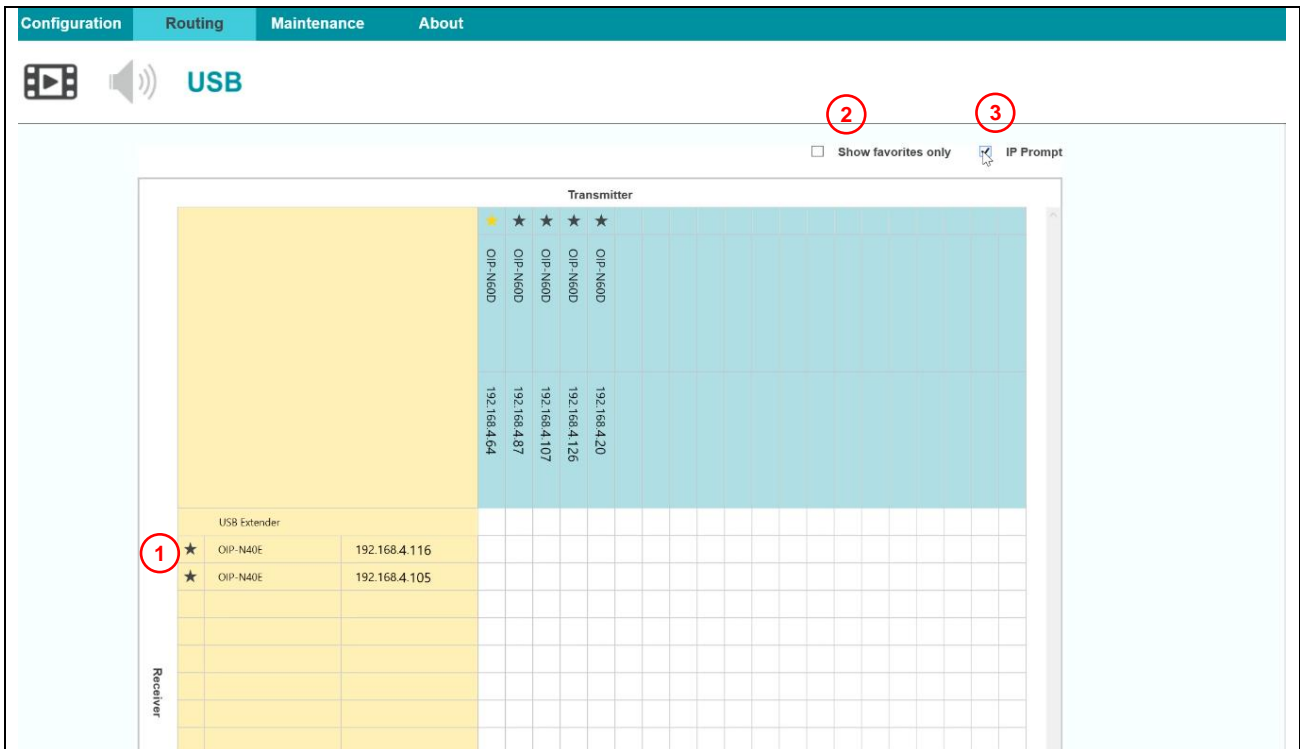
## 3.3 Routing

### 3.3.1 Video



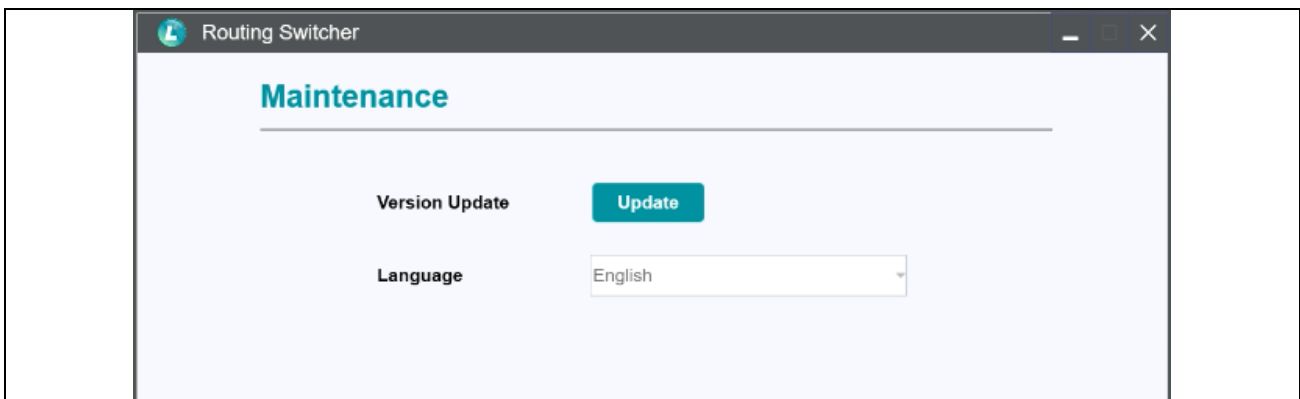
No	Item	Function Descriptions
1	Signal source list	Show the source list and the display list Select a signal source and drag it to the display list
2	Sort by	Select the sorting method for the source list <i>Sort by Name or IP Address in ascending (↑) or descending (↓) order, or select Custom for a custom order</i>
3	Preset	Save and load display layouts for quick switching between commonly used configurations <ul style="list-style-type: none"> <li>➤ 1~32: Enter or display the Preset number. Up to 32 Presets are supported</li> <li>➤ Save: Save the current settings to the selected Preset</li> <li>➤ Load: Load the settings from the selected Preset</li> </ul>
4	Show favorites only	Only the favorites will be shown Click the asterisk (★) in the lower left corner of the preview screen to add the device to your favorites
5	IP Prompt	Show the last two digits of the IP address

### 3.3.2 USB



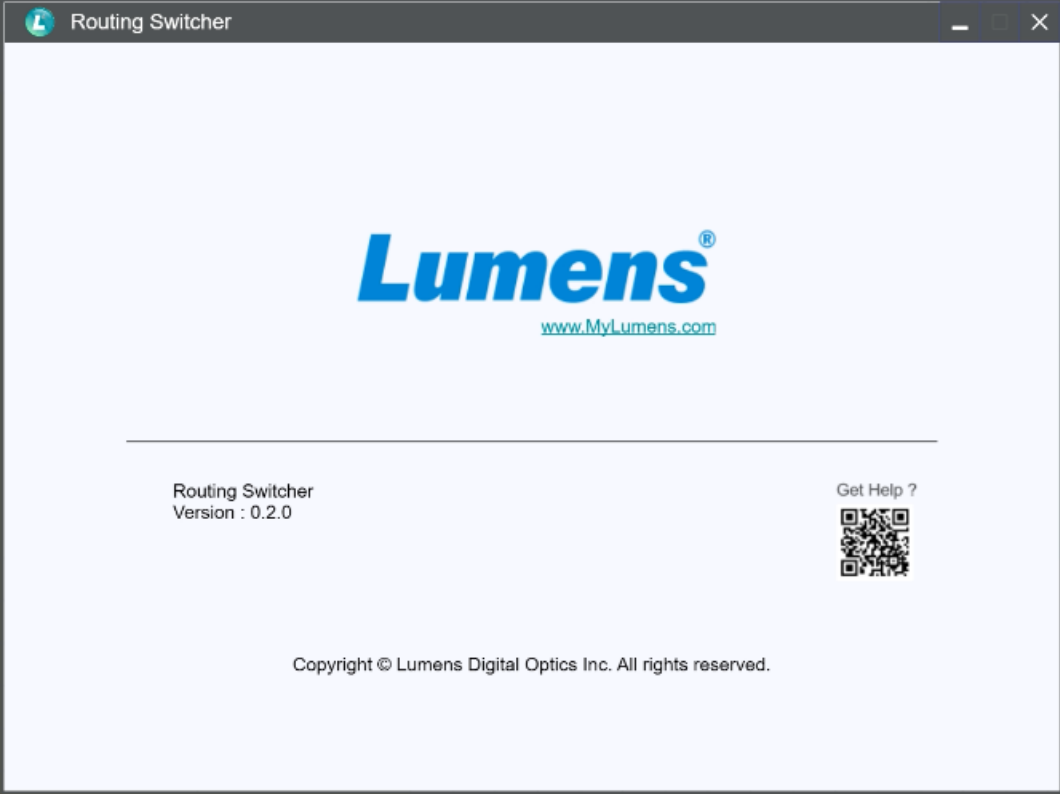
No	Item	Function Descriptions
1	USB Extender	To enable/disable the OIP-N60D USB Extender mode ● means On; a blank means Off
2	Show favorites only	Only the favorites will be shown Click the asterisk (★) in the lower left corner of the preview screen to add the device to your favorites
3	IP Prompt	Show the last two digits of the IP address

### 3.4 Maintenance



No	Item	Function Descriptions
1	Version Update	Click [Update] to check the version and update it
2	Language	Language of the software - English is available

## 3.5 About


<b>Function Descriptions</b>
Display software version information. For technical support, please scan the QRcode at the bottom right.

# Chapter 4 Troubleshooting

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This chapter describes problems you may encounter while using Routing Switcher. If you have questions, please refer to related chapters and follow all the suggested solutions. If the problem still occurs, please contact your distributor or the service center.

No.	Problems	Solutions
1.	Unable to search devices	Please make sure that the computer and the device are connected in the same network segment. (Refer to <a href="#">Chapter 2 How to Connect</a> )
2.	The operating steps in the manual are not consistent with the software operation	The software operation may be different from the description in the manual due to functional improvement. Please make sure you've updated your software to the latest version. <ul style="list-style-type: none"><li>■ For the latest version, please go to the Lumens official website &gt; Service Support &gt; Download Area. <a href="https://www.MyLumens.com/support">https://www.MyLumens.com/support</a></li></ul>

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